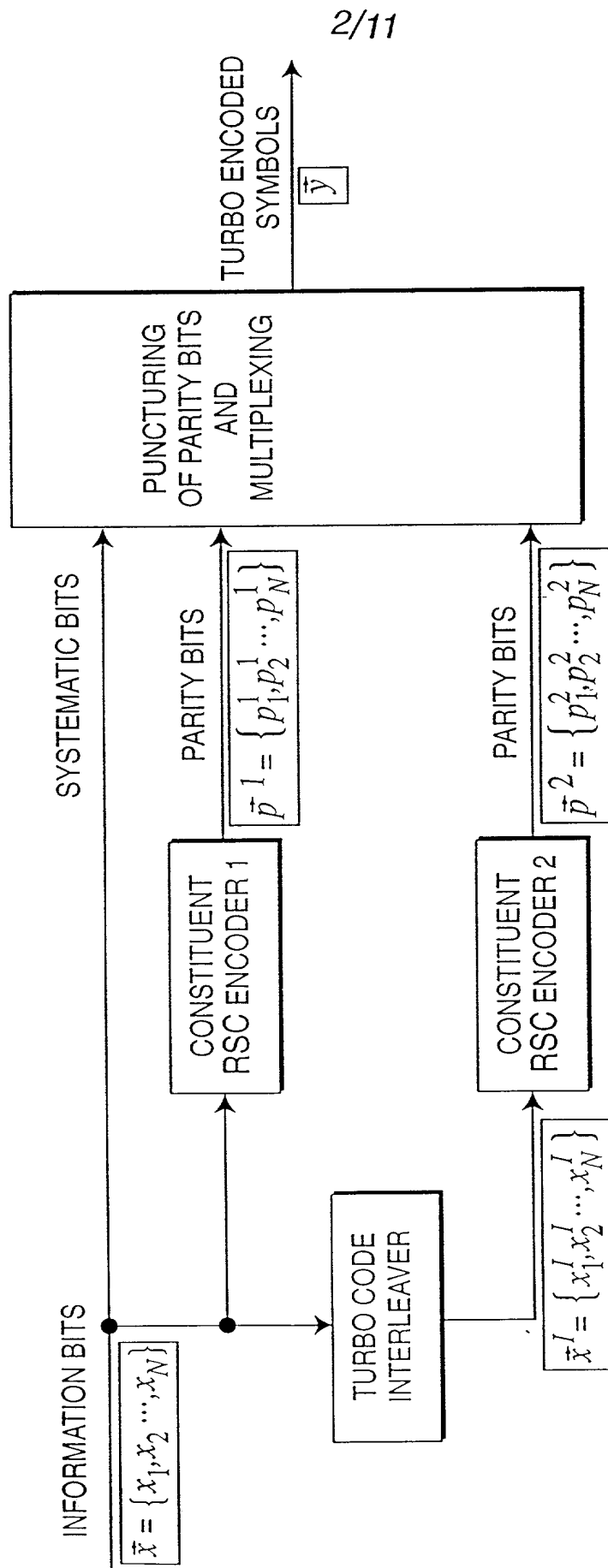


**FIG. 1**  
PRIOR ART





**FIG. 2**  
PRIOR ART

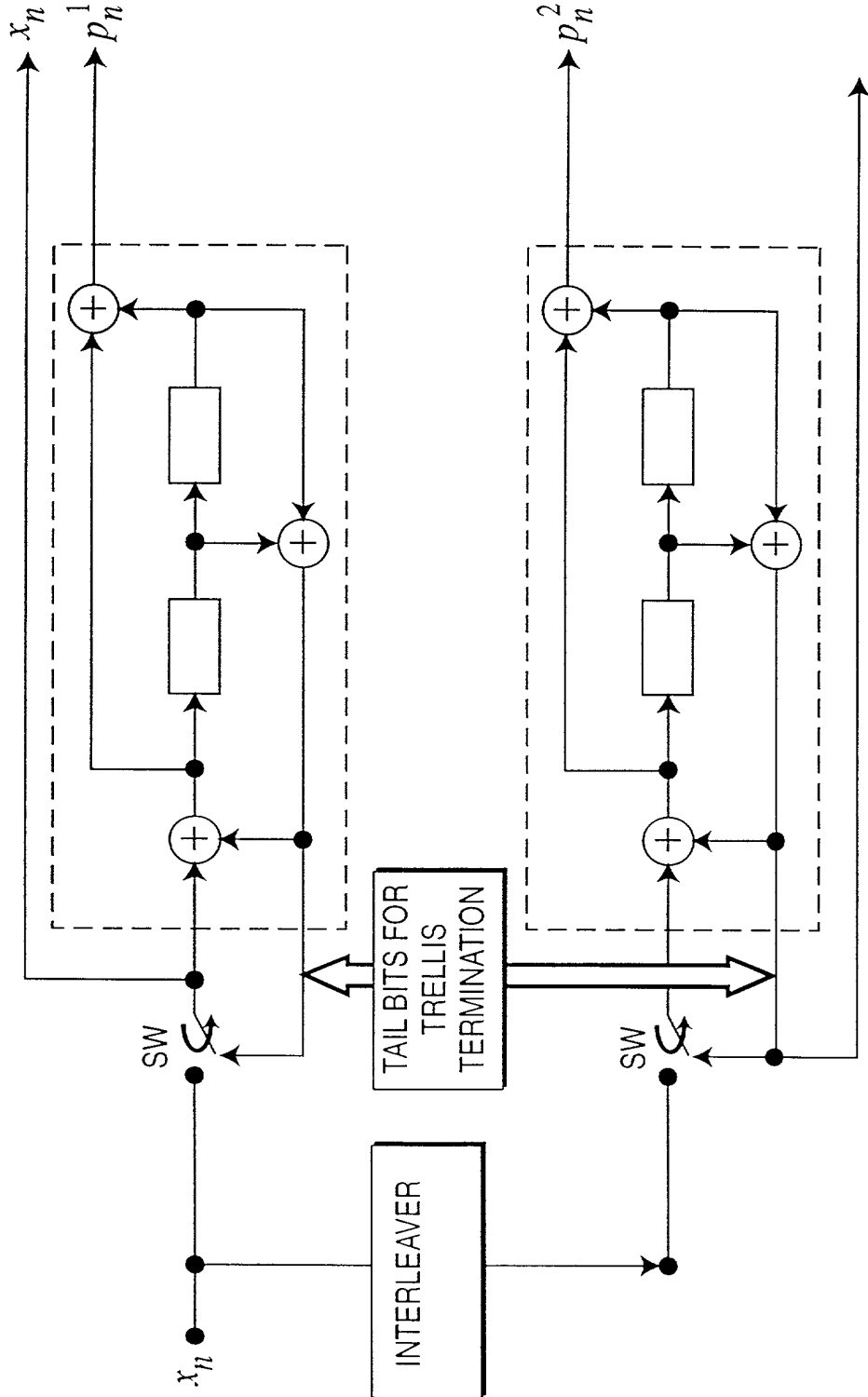
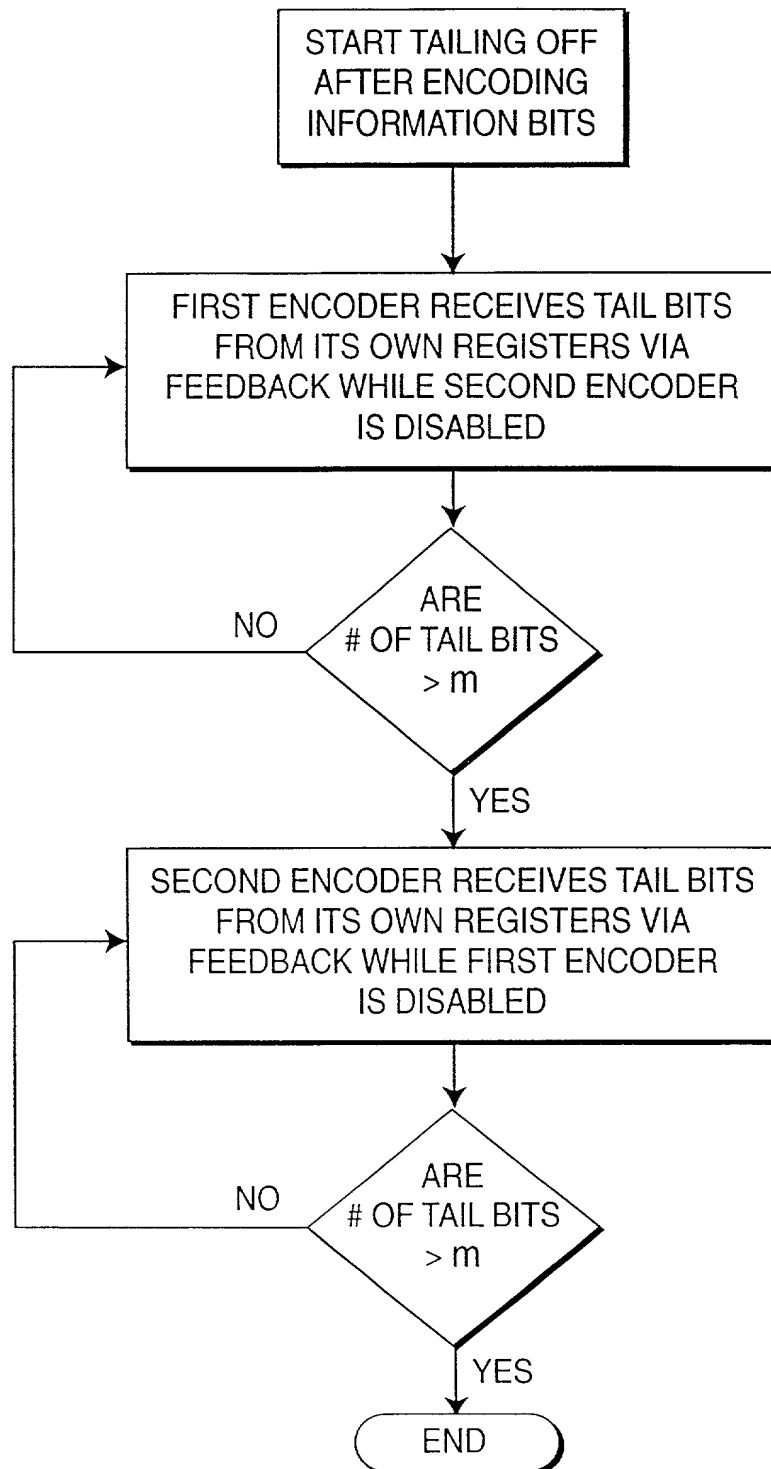


FIG. 3  
PRIOR ART

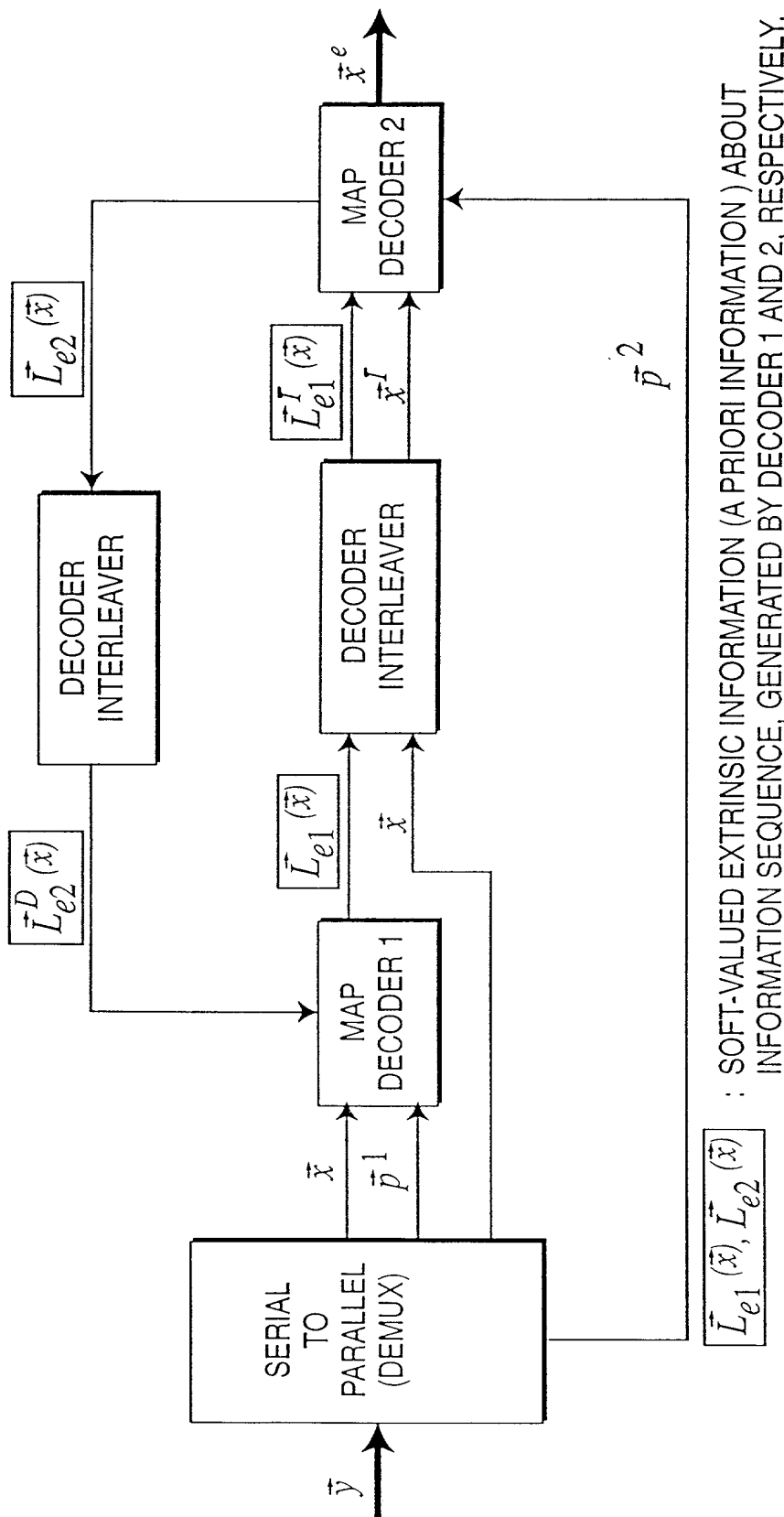
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TOTAL # OF TAIL BITS =  $2m$

TOTAL # OF TAIL CODED SYMBOLS =  $(2)(2m)$

**FIG. 4**  
**PRIOR ART**



: SOFT-VALUED EXTRINSIC INFORMATION (A PRIORI INFORMATION ) ABOUT INFORMATION SEQUENCE, GENERATED BY DECODER 1 AND 2, RESPECTIVELY.

FIG. 5  
PRIOR ART

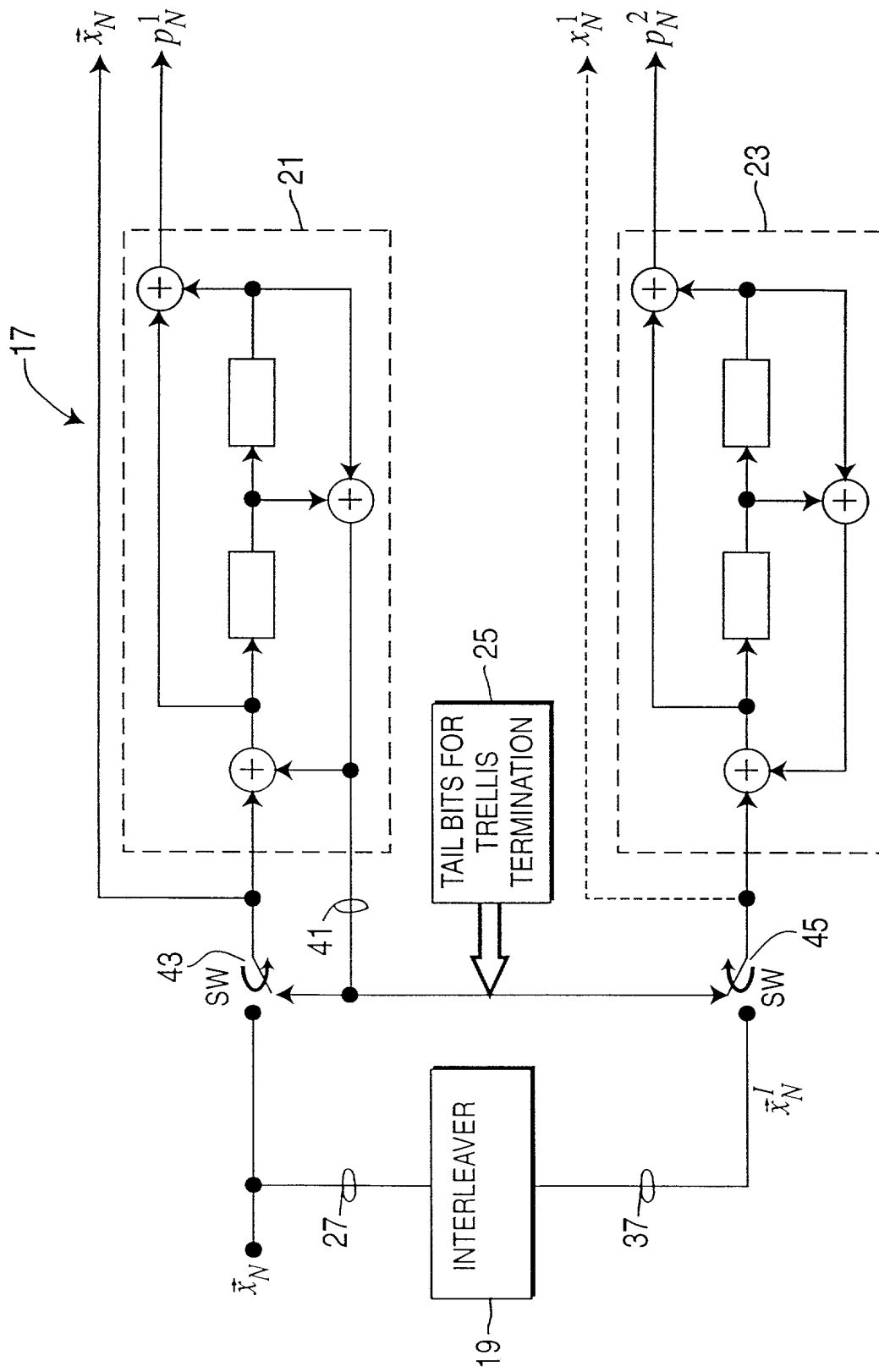


FIG. 6

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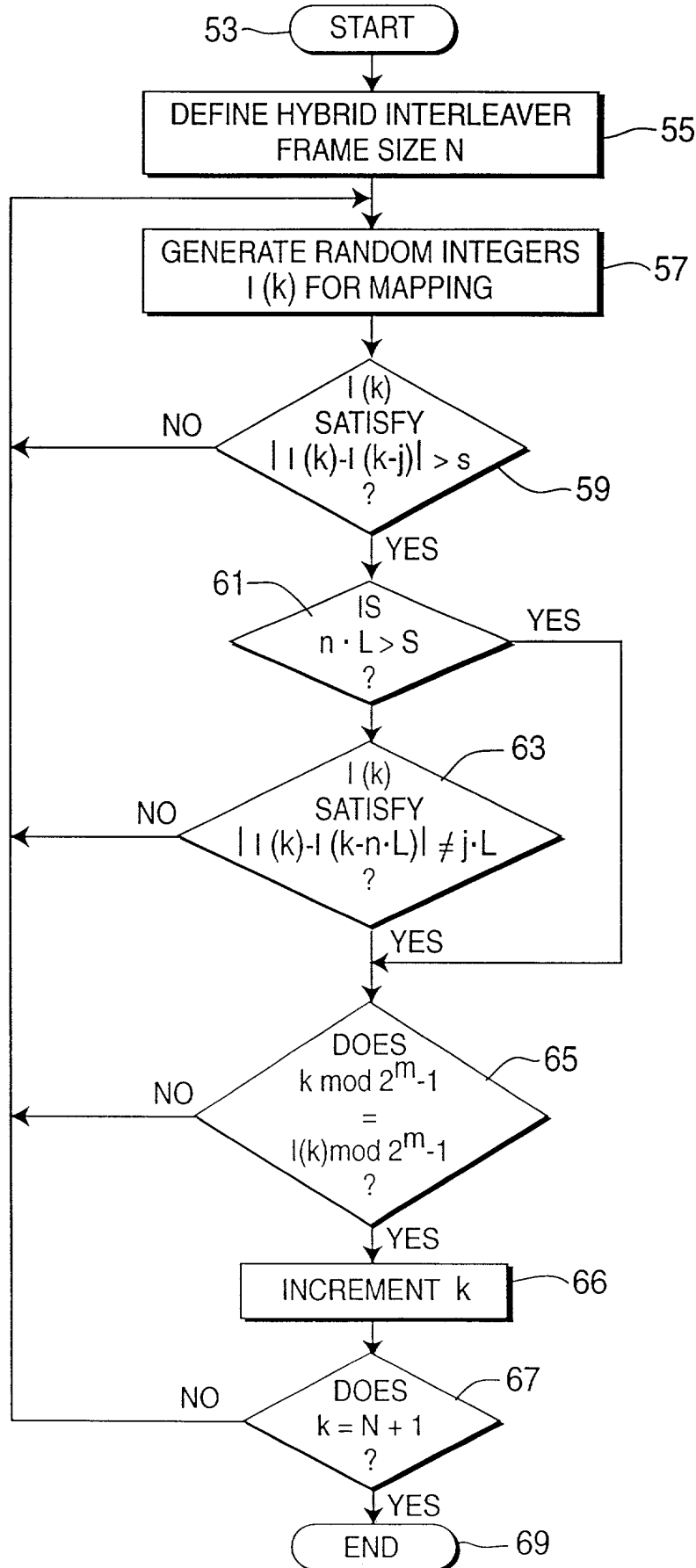


FIG. 7

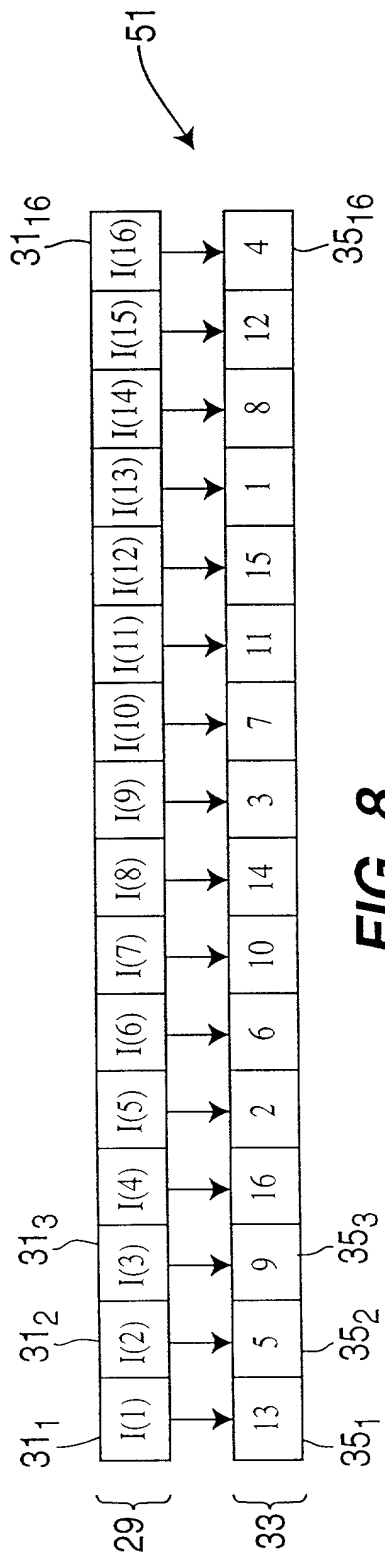


FIG. 8

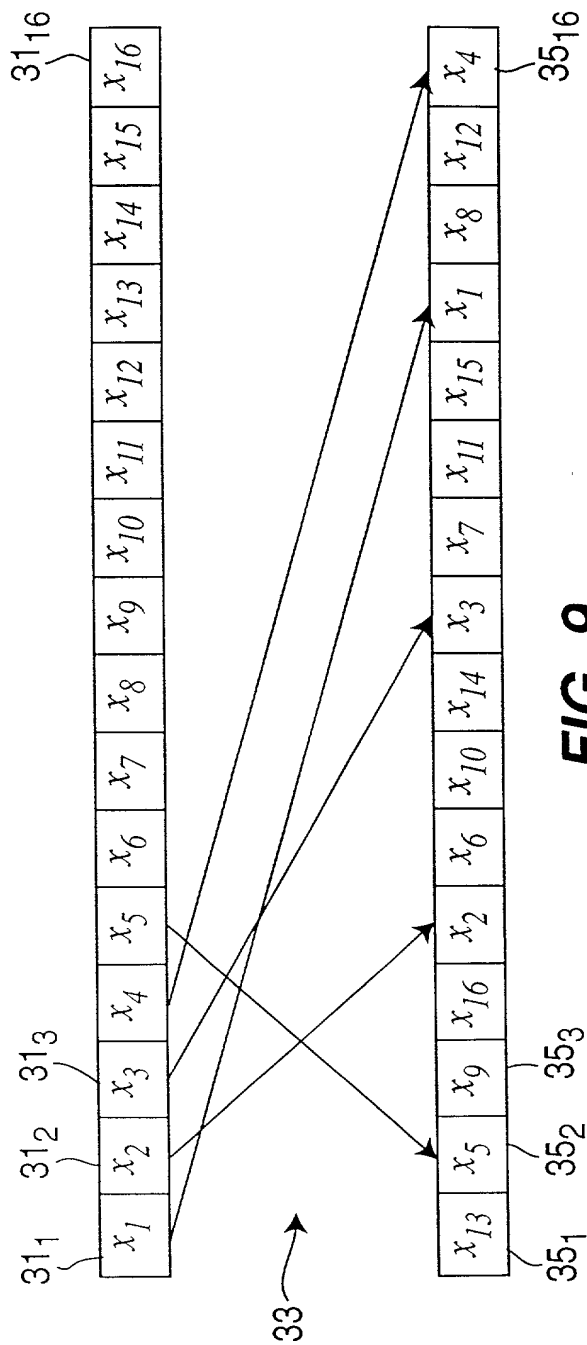
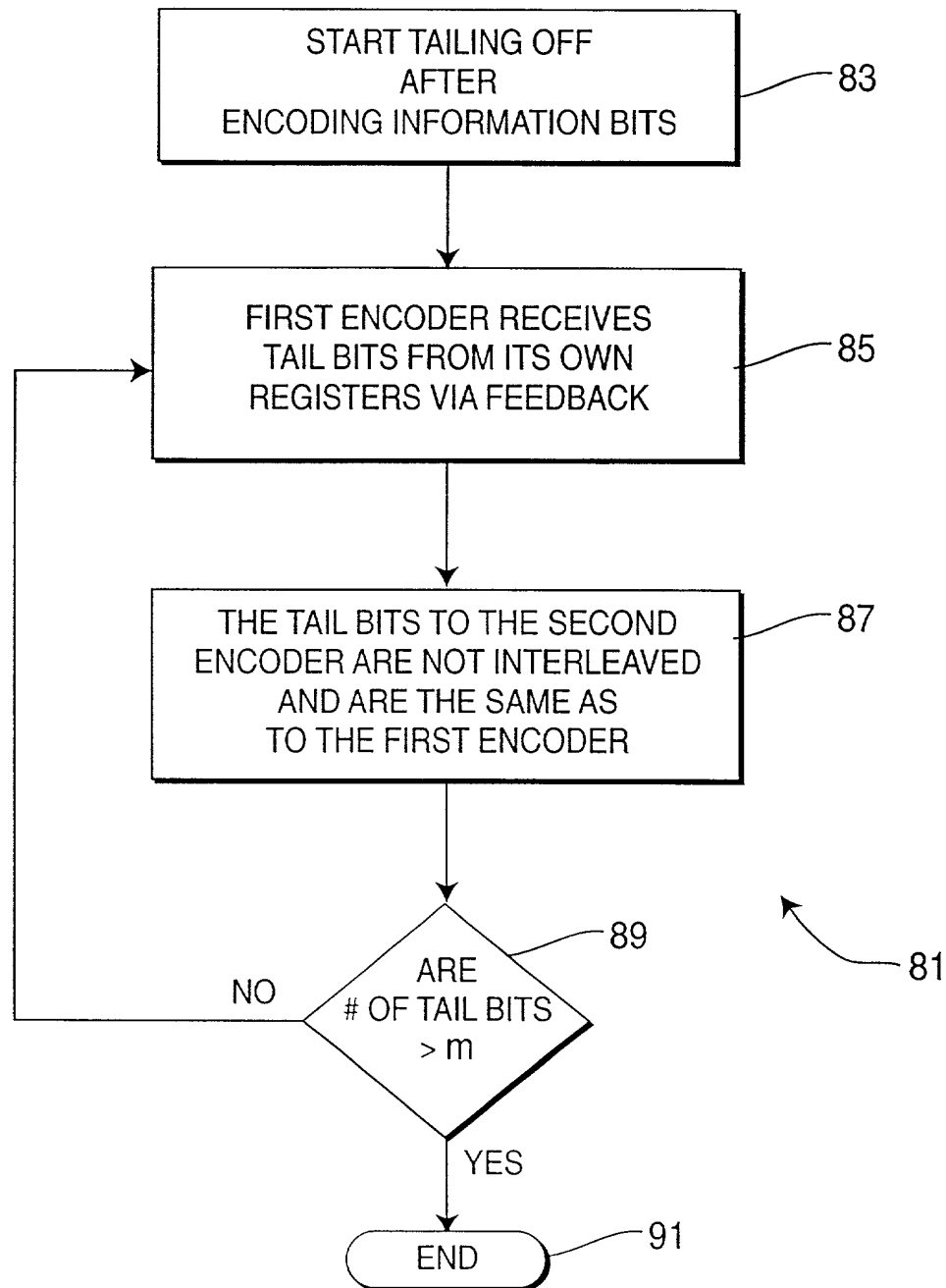


FIG. 9

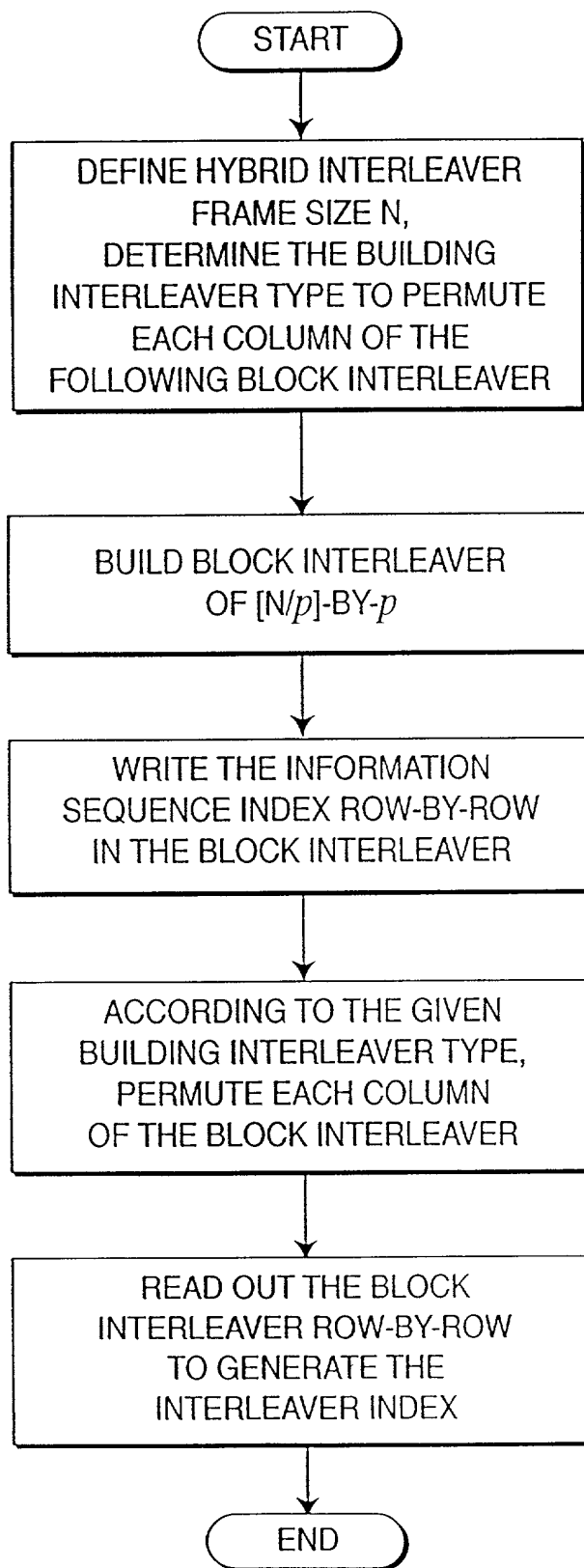






TOTAL # OF TAIL BITS =  $m$   
TOTAL # OF TAIL CODED SYMBOLS =  $2m$

**FIG. 11**



NOTE THAT IN PRINCIPLE THE BUILDING INTERLEAVER CAN BE OF ANY EXISTING INTERLEAVER TYPE LIKE (BLOCK INTERLEAVER, MIL, CDI)

WHERE  $[N/p]$  DENOTES THE SMALLEST INTEGER VALUE LARGER THAN OR EQUAL TO  $N/p$ , WHERE  $p$  IS EQUAL TO 3 AND 7 FOR 4-STATE AND 8-STATE TURBO-CODES, RESPECTIVELY

NOTE THAT EACH COLUMN HAS THE DIFFERENT MAPPING PATTERN.

FIG. 12